## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE |
|---------------------|----------|--------|------|
| FEE DETERMINATION   | 1        |        |      |
| Q.I.P.E. CLASSIFIER | /        |        |      |
| FORMALITY REVIEW    |          |        |      |

## INDEX OF CLAIMS

| ~ | Rejected                   | PN | Non-elected  |
|---|----------------------------|----|--------------|
|   | Allowed                    | ŀ  | Interference |
|   | (Through numeral) Canceled | Α  | Appeal       |
|   | Restricted                 | 0  | Objected     |

|               |     |          | <u>.                                    </u> | _        |          |              |          |          |          |           | ./       |          |    |          |               |          |          |              |                 | _        | $\overline{}$                                    | F.         |          |                | _                       |            | _            |                |              |                 |                 | _ |
|---------------|-----|----------|--|----------|----------|--------------|----------|----------|----------|-----------|----------|----------|----|----------|---------------|----------|----------|--------------|-----------------|----------|--|------------|----------|----------------|-------------------------|------------|--------------|----------------|--------------|-----------------|-----------------|---|
| $\overline{}$ | aim | 14       |  |          | -        | Dete         | -        |          | -        | -         | 1        | Cla      |    | _        | _             | _        | Dat      | a            | _               | Т-       | $\dashv$   | 10         | leir     |                | Ė                       |            |              | ate            | _            | $\top$          | _               | Т |
| <u> </u>      | Ē   | Care N   |  |          | 1        | - }          | -        |          |          |           |          | Final    | Ē  | -        | ı             | 1        |          |              |                 |          | 1 1  | ١,         | . 1      | augus<br>augus |                         |            |              | - [            | ĺ            | ļ               |                 | 1 |
| Final         | 12  | 181      | 160  | i        |          | ı            | ı        | - 1      | -        | 1         |          | ≧        | 쥙  | -        | -             | 1        |          |              | -               | h        |  | 100        | Ē        | ξĺ             | H                       | - 1        | ı,           | - [            | 1            |                 |                 | 1 |
| 1-            | 12  |          |  |          | $\dashv$ | -            | $\dashv$ | $\dashv$ | +        | +         | 1        |          | 51 | +        | +             | +-       | +        | $\dashv$     | -               | ╅        | +  | F          | 1        | 01             | П                       | _          | 1            | 十              | 十            | $\top$          | $\top$          | 1 |
| 1             | 1 2 | 4        | -  | $\dashv$ | $\dashv$ | $\dashv$     | +        | -        | +        | +-        | -        | Н        | 52 | +        | +             | +        | ╁        | 1            | -               | +        | +  | <b>-</b>   |          | 02             | -                       | $\dashv$   | _†           | す              | 7            | ┰               | 十               | 1 |
| 14            | 4 3 |          | <u></u>                                      |          | $\dashv$ |              | $\dashv$ | -        | +        | +         | ┨        | Н        | 53 | -+       | +             |          | +        |              | +               | +        | +  | _          |          | 03             |                         | 寸          | _            | 十              | 十            | $\top$          | $\top$          | 1 |
| K             |     |          | -  | -        |          | $\dashv$     | -        |          | +        |           | -        | Н        | 54 | +        | -+-           | +        | +        | $\vdash$     |                 | +        | +  | -          |          | 04             |                         | ┪          | -+           | $^{+}$         | +            | +               | +               | 7 |
| <b>/</b>      | 5   |          | $\rightarrow$                                |          | $\dashv$ |              | $\dashv$ |          | +        | +         | 4        | Н        | 55 | +        | $\dashv$      |          | ┿        | -            | $\dashv$        | +        | +  | - F        |          | 05             | $\vdash$                | _          | 寸            | 十              | 十            | $\top$          | _               | 7 |
| <b>!</b>      |     |          | $\vdash$                                     |          | -        | -            | -        |          | +        | +         | -        | Н        | 56 | +        | +             | +        | ╁┈       | -            | +               | +        | +  | -          |          | 05             |                         | 寸          | _†           | ヿ              | 十            | ╅               | $\top$          | 1 |
| -             | 7   |          |  | -        |          | $\vdash$     | $\dashv$ | $\dashv$ | $\dashv$ |           | 4        | $\vdash$ | 57 | +        | -             |          | +-       | -            | $\dashv$        | +        | +  | _ F        |          | 07             | $\vdash$                | ┪          | _            | $\dashv$       | 十            | _               | $\top$          | ٦ |
| ⊢             |     |          | Н  | $\dashv$ | -        | -            | -        | -        | +        |           | 4        | $\vdash$ | 58 | +        | +             | +        | +        | $\vdash$     | -+-             | +        | +-   | <u> </u>   |          | 08             | $\vdash$                | -          | 1            | $\dashv$       | 7            | 7               | 十               | 7 |
| ⊢             | - 6 |          | Щ  | $\dashv$ |          | $\vdash$     |          | -        | $\dashv$ |           | 4        | -        | 59 | -+       | +             |          | +        | $\vdash$     | -+              | ╅        | +  | <u> </u>   |          | 09             | $\vdash$                | -          | 寸            | -              | 十            | 十               | +               |   |
| -             | 1   |          | $\vdash$                                     |          | _        | ш            | $\dashv$ |          |          | +         | -        | -        | 60 |          | +             |          | +        | -            | +               | +        | +  | - H        |          | 10             | +                       | $\dashv$   | _†           | $\dashv$       | +            | _               | 十               | 1 |
| -             | 11  |          | $\vdash$                                     |          | _        | -            | $\vdash$ |          |          | +         | -        | -        | 61 | - #      | +             | +-       | +        | ╀┤           | $\dashv$        | +        | +  | , F        |          | 11             |                         | -          | 寸            | +              | 十            | +               | $\top$          | ٦ |
| -             |     |          | $\vdash$                                     | -        | _        |              | $\vdash$ |          | -        | +         | +        | $\vdash$ | 62 | - \$     | +             | +        | +-       | Н            | $\dashv$        | +        | +  | <b> </b> - |          | 12             | $\vdash$                | $\dashv$   |              | 十              | +            | +               | 十               | ٦ |
| $\vdash$      | 12  |          | -  | _        |          | $\vdash$     | -        | -        | -+       | +         | -        | $\vdash$ | 63 | $\dashv$ | -+            | +        | +-       | H            |                 | +        | +  | h          |          | 113            | 1                       | $\dashv$   | -            | $\dashv$       | $\top$       | +               | 十               | ٦ |
| $\vdash$      | 7   | 4        |  | Н        |          | $\vdash$     | $\vdash$ |          | $\dashv$ |           | $\dashv$ | $\vdash$ | 64 | +        | -+            | +        | +-       | $\vdash$     | -               | +        | - -  | -          |          | 114            | $\vdash$                | $\vdash$   | $\dashv$     | -              | _            | 十               | 十               | ٦ |
| 1             |     |          | -  | $\vdash$ | _        | H            |          | $\dashv$ | $\dashv$ | -+-       | -        | $\vdash$ | 65 | $\dashv$ | -+            | +        | +-       | $\vdash$     | -               | +        |  | -          |          | 115            | $\vdash$                | $\vdash$   | 一            | _              | $\dashv$     | +               | 7               | - |
| F.            | 11  |          | ├—   | <u> </u> |          | <u> </u>     | $\vdash$ | $\dashv$ |          | +         | -        | -        | 66 | -        | $\dashv$      | -        | +        | Н            | -               | $\dashv$ | +  | -          |          | 16             | +                       |            | $\dashv$     | -              | -+           | 十               | _               | - |
| Įī.           | 11  |          | <del> </del> —                               |          | _        | ⊢            | Н        | Н        |          | +         | ┥        | -        | 67 |          | +             |          | ┿        | $\vdash$     | -               | +        | +  | l h        |          | 117            | +-                      |            | $\dashv$     | _              | 寸            | $\dashv$        | 十               | - |
| 4-            | 1   |          | ⊢  | ┡        |          |              | -        | Ш        | -        | -         | -1       | -        | 68 | ,        | $\rightarrow$ |          | +        | -            | -               | -+       | +  | i h        |          | 118            | +                       | Н          |              | _              | 寸            | 十               | 1               | _ |
| $\vdash$      | 1   |          | ╄  | _        | _        | <del>-</del> | Н        |          | Н        | +         | -        | $\vdash$ | 69 | -        | +             | +        | +        | -            | $\dashv$        | -+       | +-   | l          |          | 119            | +-                      | Н          |              | $\dashv$       | 十            | 十               | 7               | _ |
| _             | 1   |          | <u> </u>                                     | _        | _        | ļ            | _        | -        | -        | +         | 4        | $\vdash$ | 力  |          | -             | -        | +        | -            | $\vdash$        | -+       | +  | l  -       |          | 120            | +-                      | H          | $\vdash$     |                | -+           | $\dashv$        | ╅               | - |
| L             | 2   |          |  | L        |          | _            | Ш        |          |          |           | _        | L        |    |          | 4             | ـــاـــ  | +        | ↓_           | $\vdash$        |          | -  | -          |          |                | +                       | Н          | Н            |                | $\dashv$     | +               | +               | _ |
|               | 2   |          |  | 乚        | _        | <u> </u>     |          |          | Ш        | 4         | 4        | <u></u>  | 71 | $\sqcup$ | 4             | 4        | +        | -            |                 | -+       |  | <b>!</b>   |          | 121<br>122     | ╁                       | -          | Н            | -              | -            | $\dashv$        | ┿               | _ |
|               | 2   |          | _  | ↳        |          |              |          | L        | Ш        |           | _        | _        | 72 | _        | _             |          | _        | <del> </del> | $\vdash \vdash$ | -+       |  | 1 -        |          | 123            | +-                      | $\vdash$   | -            | Н              | $\dashv$     | +               | $\dashv$        | _ |
| L             |     | 3        | L  | <u>_</u> | L        |              | _        | _        |          | $\perp$   | _        | <u>_</u> | 73 | _        | $\dashv$      | -        | ┵        | <del> </del> | -               |          | +  | <b>∤</b> ⊦ |          | 124            | +                       |            | Н            |                | $\dashv$     | +               | ╅               | - |
| L             |     | 4        | L.   | <u> </u> | L        | -            | L        |          | Ш        | Ц.        | _        | <u> </u> | 74 | Н        | -             | -+       | -        | ╁            | $\vdash$        | $\dashv$ |  | 1 }        |          | _              | +                       | -          | -            | Н              | $\vdash$     | -+              | +               | _ |
| L             |     | 5        | _  | L        | <u>L</u> | L.           | L        | _        |          | $\perp$   | 4        | _        | 75 | Ш        | $\dashv$      | -        | +        | -            | <del>}</del>    | -        |  | ┨          | _        | 125            | +                       | <b>├</b> - | -            |                | $\dashv$     | $\dashv$        | -               | - |
|               |     | 6        |  | 乚        | L_       | _            | L        |          |          |           | _        | $\vdash$ | 78 | Ш        | 1             | 4        | 4        | +            | <b>!</b>        | -        | -+-  | - I        |          | 126            | +                       | -          | ⊢            | Н              | -            | $\dashv$        | -               | _ |
| L             |     | 7        | _  | L        | L        | 上            | 1_       | <u> </u> | <u> </u> | $\perp$   | _        | <u>_</u> | 77 | L.       | _             | -        | 4        | 4-           | $\vdash$        | -        |  | - I        |          | 127<br>128     | +-                      | -          | ⊢            |                | -            | -1              | +               | _ |
|               |     | 8        |  |          | L        | 1_           | <u>_</u> | <u> </u> | L        |           | _        | $\perp$  | 78 | L        |               | _        |          | ╄-           | $\vdash$        | -        | -  | 1 1        |          | 129            | +                       | ╁          | ⊢            | -              |              | $\vdash$        | +               | _ |
|               |     | م 9      | _  | 1        | 1_       | _            | <u>_</u> |          | _        | Ц.        | _        | $\perp$  | 79 | Щ        | _             |          | 4        | 4_           | 1-1             | _        | -  | 1 1        |          | 130            | +-                      | ┼          | ┼—           | ┝              |              | -               | +               | _ |
| Γ.            |     | 10 i     | Ι  | <u> </u> | <u> </u> | 1_           | _        | _        | L        | $\perp$   |          | L        | 80 |          | $\Box$        | _        | 4        | 4_           | $\Box$          |          |  | -          |          |                | +                       | <b>├</b>   | ├-           | ├-             | -            | $\vdash$        | -               |   |
|               |     | 31/      |  |          | L        | 丄            | 1_       | L        | L        | $\sqcup$  | _        | _        | 81 |          | Ш             | _        | 4        | _            | $\perp$         |          | -  | 4 1        |          | 131            | +                       | +-         | ١.           | <del> </del>   | ╁┥           | $\vdash$        | -               | _ |
|               |     | 12       |  |          | _        | ┖            | _        |          |          |           | _        | _        | 82 | _        | Ш             | _        | _        | ╀            | 1               |          |  | -          |          | 132            | ÷                       | -          | 1            | <del>!</del> — | $\vdash$     | -               | $\dashv$        | - |
|               |     | 33       |  |          | Ĺ        | L            | L        | L        | <u></u>  | Ш         |          | _        | 83 | <u> </u> | Ш             | _        | $\perp$  | $\perp$      | $\sqcup$        | $\sqcup$ |  | 4          |          | 133<br>134     | 4                       | +-         | 1-           | ⊢              | $\vdash$     | ┝╼┤             | -               | _ |
| Γ             |     | 14       |  | L        | L        |              |          |          | 1        | Ш         |          | $\perp$  | 84 | 1_       | Ш             | _        | 4-       | +-           | 1               |          | $\vdash$   | 4          |          |                |                         | +          | -            | ╁              | $\vdash$     | ⊢-⊦             | $\dashv$        | _ |
|               |     | 35       |  | L        | L        |              | $\perp$  |          | L        | Ц         |          | _        | 85 |          | Ш             | _        | 4        |              | $\vdash$        |          | -  | 4          |          | 135<br>136     | +                       | +          | +            | +-             | $\vdash$     | $\vdash \vdash$ | $\vdash$        | _ |
|               |     | 16       |  |          |          |              |          |          | L        | Ш         | _        | L        | 86 | _        | $\sqcup$      |          | $\perp$  | +            | 1               |          |  | 4          |          |                |                         | +          | <del> </del> | ╁              | $\vdash$     | $\vdash$        | ⊢╢              | _ |
| T             |     | 37       |  |          |          |              |          | L        |          | $\square$ |          | 1        | 87 |          |               |          |          | -            |                 |          |  |            | <u> </u> | 137            |                         | +          | ┼            |                | $\vdash$     | $\vdash$        | ┟─┤             | - |
|               | 1   | 38       |  |          | Γ        | L            |          |          |          |           |          |          | 88 |          |               |          |          | 4_           | 1_              |          |  |            |          | 138            |                         | +          | ↓-           | 4              | $\vdash$     | $\vdash$        | ┝╾┥             | - |
| 1             | 1   | 39       | Т  | Τ        |          |              |          |          |          |           |          |          | 89 |          |               | Ш        | _        |              | 1               |          |  |            | _        | 139            | +                       | -          | 1            | ╀              | ┺            | ┦               | $\vdash \vdash$ | - |
|               | 7   | 10       |  | Т        | Τ        | T            | T        | Τ        |          | П         |          | 1        | 90 |          |               | $\Box$   |          | L.           | L               |          |  | 100        | L        | 140            | $\perp$                 | 1_         | ┺            | 1              | <del> </del> | $\sqcup$        | Ш               | - |
| 4             | 1   | 41       | 1  | T        | T        | T            | 1        | Т        | 1        | П         |          |          | 91 |          | 1             |          | П        | Τ            | . [ ]           |          |  | 7          | L        | 141            | $\perp$                 | L          | 1            | L              | L            | $\Box$          | $\Box$          | L |
|               |     | 12       | +  | +        | t        | +            | +        | 1        | +        | $\sqcap$  |          | -        | 92 | :        | Γ             | $\Box$   |          |              |                 | L        |  |            | Ĺ        | 142            |                         | L          |              | Ĺ              | 1            |                 | Ш               | L |
| -             |     | 43       | +-   | +-       | $^{+}$   | -            | +-       | +        | +-       | ⇈         |          | 1        | 93 |          | Ī             | П        | $\neg$   |              | T               |          |  | į.         |          | 143            | $oldsymbol{\mathbb{I}}$ | $\perp$    |              |                | L            |                 | $\sqcup$        | L |
| 1             | _   | 44       | +  | +-       | +        | +-           | +        | +        | +-       | $\vdash$  | -        |          | 94 |          |               |          |          | $\top$       | 1               |          |  |            |          | 144            |                         | Τ          | I            | Ι              | $\Gamma$     | $\Box$          |                 | Ĺ |
| 1             |     | 45       |  | -        |          | 1            | 1        |          | 1        | 1         | 1        | -        | 95 |          | 1             |          | -        | 1            |                 |          | 1  | 1          | Г        | 145            |                         | I          |              | I              | Γ            | $\Gamma$        |                 | Γ |
| . 1           | _   | 46       | +  | +        | +        | +-           | +        | +        | +        | +-        | -        | -        | 96 |          | T             | $\vdash$ | $\dashv$ | 1            | $\top$          |          |  |            | Г        | 146            |                         |            |              | T              | $\Gamma$     | L               |                 | Γ |
| ۲,            |     | 47       | +  | +        | ╁        | +            | +-       | +        | +-       | H         |          | +        | 97 |          | †             | П        | -        | _            | $\top$          | 1        |  | 1          | Г        | 147            | T                       | T          | Т            | T              | Τ            | Т               | П               | Γ |
| ,             |     | 47<br>48 | +  | +        | +        | +-           | +        | +-       | +        | ╁┤        | $\dashv$ | -        | 98 |          | +             | $\vdash$ | $\dashv$ | +            | +               | T        | $\vdash$   | 7          | Г        | 148            | _                       | 1          | $\top$       | 1              | T            | Т               |                 | Γ |
| :  -          |     | 49       | -  | +        | +        | +            |          | +-       | +-       | ╁┤        | -        | $\vdash$ | 99 |          | +             | 1-1      | +        | +            | $\top$          | 1        | T  | 7          |          | 149            | 7                       | Т          | Τ            | T              | Τ            | Т               | Г               | Γ |
| L             |     | 50       | -  | +-       | +        |              | +        | +-       | +        | +         | $\dashv$ | -        | 10 |          | +             | +-1      | $\dashv$ | +            | +               | +-       | <del>                                     </del> | 1          | H        | 150            | $\dashv$                | 1          | $\top$       | T              | $\top$       | 1               | П               | Г |

If more than 150 claims or 10 actions staple additional sheet here

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